From: Udumula, Arokiam S.

To: Champion, Kevin; Andreasik, John J:(BGE); Hamilton, Suzanne; Blanca Barajas; Apte, Ajit:(BGE); Alan Marshall; Allen Austin; Amanda Bayley; Ambuj Srivastav; Ben Brose (MP); Amy Schintz; Hodges, Angela; Annette L Lovitt; Armando Bolivar; August Lindner IV; Natasha.Papsoueva@seattle.gov; Barbara Oleck; Becki Cadis; Becky Pope; Bevan Grice; Billy Von Bautista; Brenna Martin; Majano, Brij:(BSC); Cathy Wylie; Chantal Nault; Charlene Ussery; Charles Lei; Chasity L Greenwood; Christina Veltkamp; Christina Waite; Christine Martinez; Christopher Dailey; Nelson, Cindy L. (IT); Clayton Mauldin; Courtney Basile; Crystal James; Cynthia Rojas; Damien Beresfeord; Darci Miller; Darrin Duhon; Dave Manville; Dave Vogel; Dave Yeselavage; David Garcia; David Rice; David Wiedmeier; Dawn Frye; Deb Braun; Debra Walz-Burkett ; Denise Hutchinson; Diala Batshoun; Donald Case; Donald Crow; Donald Dyson; Donna O"Brien (donna.obrien@mid.org); Elaine Stupi; Elena Montalvo; O"Connor, Elizabeth J:(BGE); Evelyn Page; Flora Chang; Gabby Mendoza; Gary Jensen; Gayle Shimizu; Gina Calabro; Glenn Amy; Greg Lyon; Hagen, Harold E:(BSC); Harold Concepcion; Heather Hallett; Heather Warren; Hedi Ago; Hillary Bargagliotti; Huma Razzak (hrazzak@torontohydro.com); Hung Nguyen; Jean Chamberlain; Jeanne Atkinson; Jeff Lynch; Jeff Mayne; Jeffrey Lo; Jennifer Turner; Jeremy Marquette; Jerrica Simms; Jesus Garcia; Jim Weeg; Jimmy Chen (jchen@torontohydro.com); Johanna Raycraft; John Little; John Sims; Josephine A. Sassano; Josephine Barrios; Joyce Miceli; Judith Miller; Julie O"Neal; KevinJ.Jones@seattle.gov; Julie Stewart; Julien Bellorgey (julien.bellorgey@suez-na.com); Kathleen Pankoe; Kellie Reem; Kent Halder; Kevin Boutchard; Khawer Rauf; Kris Peterson; Kristen Faulkner; Kurt Rowley; Leslie Benfield ; Leslie Miller; Beddows, Linda D:(BSC); Lisa Burnette; Lisa Chiasson; Lisa Holliday; Lisa Kappenman; Lisa Martinez; Lois Stark; Manoj Pandit ; Marge Vizcarra; Marianne Walker; Maribel Nieves ; Martha Hobson; Mary Corby; Mary Wegner (mwegner@mge.com); Matt Larson; Matt Strickland (strimj@jea.com); Melani Chacon; Melissa Josey-White; Melissa Ortman; Michael Moss; Michael Troia; Michelle Asaro; Michelle Gilchrist; Molly Cormaney; Bell-Izzard, Morlon D:(Exelon Utilities); Evans, Nikki; Norma Palomera; Obe Everett ; Oran Weaver; Osvaldo Hernandez; Mason, Paul:(BSC); Roller, Paul J:(BSC); Peggy Ellison; Penny Karagianakos; Manalil, Peter J.; Rajani Kondury; Rajesh Prasad; Raminder Singh ; Randy Barbee; Randy Miller; Randy Vance; Raymond Anderson; Raymond Kelly; Regina DeGuzman; Rejith (RJ) Kumar (rj@esc-partners.com); Richard A. Reese; Robert Jones; Roberto Ocampo Saya; Robin Nichols; Robin Souder; Roger Brown; Ron Fennell; Ryan Darlow; Ryan Pham; Sally Barakat; Sami Balestri; Sandra Maganas; Scott Reed; Shigeo Armando Nishi Lozano (snishi@celsia.com); Sickler Jr, Richard L:(BGE); Stacey Zinyk (Stacey.zinyk@atco.com); Stacy Smith; Steve Rubin; Johnson, Steven M:(BGE); Steven Ober; Sue Alcantara (sue.alcantara@longbeach.gov); Sue Skinner-Schmudlach (sskinner-schmudlach@mge.com); Sue Twardy; Decker, Susan; Sylvia Welch; Tammy Byrd; Tarja Nummela; Tashonda Betts; Teri Kaczmarek; Teri Sovak; Terry Vicuna (terry.vicuna@epelectric.com); Tina Bekeros; Tom Glaser; Tony Kus; Tony Mossbarger; Tonya Morin; Tonya Taylor; Tricia Zacharisen; Troy Tremble; Venkata Nimmala (venkata.nimmala@aps.com); Vijay Suravarapu; Warwick Tichbon; Wendy Greess; William Schmidt; Yelena Figueroa; Tom Hoffken; Davis, Eric; Cacho, Laura; Lu.Podwall@seattle.gov; Latosha.Taylor@seattle.gov; Wendy.White@seattle.gov; Venus.Navarro@seattle.gov; Obed.Yusaf@seattle.gov; vheinz@mge.com; pcross-leone@mge.com; Michelle Gilchrist; Norma Black; Garcia, David; Figueroa, Yelena; Zacharisen, Tricia; Michelle Enriquez; Luzzi, Britt; Jeanne Atkinson (MP); Arnold, Paula; Brenna Sims; Lin E. Hall, Jr.; Rev Salem; Joann Rowe; AMohan@tep.com; ltiarks@tep.com; KONeal@tep.com

Cc: Nelson, Cindy L. (IT)

Subject: RE: 4 Day / 5 Day Bill Window

Date: Tuesday, September 25, 2018 10:11:55 AM

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John,

- **Bill Window Method Used Today?**
  - We read alternate month for 2.2 M (AMI in progress) and have AMR (monthly drive by) for 356,905
  - Download 5 days in advance of Read Date
  - The estimate date is not equal to window end date in bill cycle schedule because we allow 2 days for supplier charge to come in after utility bill segment is created
  - Offcyle (Estimate Month) - The window is open for 3 days
  - Oncycle (Non Estimate Month) – The window is open for 6 days

- **Number of Bill Cycles?**
  - We have 3 LDC
  - Two of Three LDC have 21 bill cycle for each LDC
  - One of Three LDC have the following bill cycle

        - 20 monthly read bill cycle
        - 20 Oncycle
        - 20 Offcycle

- **Number of Customers?**
    - We have 2,554,215 active Utility customers

- **Number of AMI Meters Currently in Use?**
    - 25,600

Thanks
Stella

From: Champion, Kevin <Kevin.Champion@raleighnc.gov>
Sent: Monday, September 24, 2018 4:20 PM
To: Andreasik, John J:(BGE) <John.J.Andreasik@bge.com>; Hamilton, Suzanne <shamilton@NESPOWER.COM>; Blanca Barajas <blanca.barajas@lvvwd.com>; Apte, Ajit:(BGE) <Ajit.Apte@bge.com>; Alan Marshall <amarshall@sfwater.org>; Allen Austin <aaustin@ouc.com>; Amanda Bayley <amanda.bayley@blpc.com>; Ambuj Srivastav <asrivastav@torontoHydro.com>; Ben Brose (MP) <bbrose@mnpower.com>; Amy Schintz <aschintz@mnpower.com>; Hodges, Angela <Angela.Hodges@raleighnc.gov>; Annette L Lovitt <alovitt@gcpud.org>; Armando Bolivar <Armando.Bolivar@ladwp.com>; August Lindner IV <august.lindner@oracle.com>; Natasha.Papsoueva@seattle.gov; Barbara Oleck <barbara_oleck@tempe.gov>; Becki Cadis <bcadis@csu.org>; Becky Pope <Popers@guc.com>; Bevan Grice <bevan.grice@faypwc.com>; Billy Von Bautista <billyvon.bautista@gswater.com>; Brenna Martin <brenna.martin@powerstream.ca>; Majano, Brij:(BSC) <brij@constellation.com>; Cathy Wylie <cathy.wylie@atco.com>; Chantal Nault <ChantalNault@HydroOttawa.com>; Charlene Ussery <charlene.ussery@longbeach.gov>; Charles Lei <CLei@cityofsacramento.org>; Chasity L Greenwood <greecl@jea.com>; Christina Veltkamp <christina.veltkamp@enstarnaturalgas.com>; Christina Waite <chris.waite@auroraenergy.com.au>; Christine Martinez <christine.martinez@denverwater.org>; Christopher Dailey <dailcb@jea.com>; Nelson, Cindy L. (IT) <CLNelson@southernco.com>; Clayton Mauldin <clayton.mauldin@santeecooper.com>; Courtney Basile <Basilecd@guc.com>; Crystal James <cjames@gcpud.org>; Cynthia Rojas <rojace@jea.com>; Damien Beresfeord <damien.beresford@oracle.com>; Darci Miller <darci.miller@cfunet.net>; Darrin Duhon <dduhon@lus.org>; Dave Manville <dmanvil@gcpud.org>; Dave Vogel <dvogel@lwcky.com>; Dave Yeselavage <DYeselavage@tep.com>; David Garcia <david_garcia@sjwater.com>; David Rice <Jmoore@ouc.com>; David Wiedmeier <david.wiedmeier@mdu.com>; Dawn Frye <dfrye@ouc.com>; Deb Braun <deb.braun@mdu.com>; Debra Walz-Burkett <dwalz-burkett@abcwua.org>; Denise Hutchinson <denise.hutchinson@aps.com>; Diala Batshoun <dbatshoun@sfwater.org>; Donald Case <Donald.Case@aps.com>; Donald Crow <donny.crow@oracle.com>; Donald Dyson <DDYSON@sjindustries.com>; Donna O'Brien (donna.obrien@mid.org) <donna.obrien@mid.org>; Elaine Stupi <ess4@pge.com>; Elena Montalvo <EMONTA@miamidade.gov>; O'Connor, Elizabeth J:(BGE) <elizabeth.oconnor@exeloncorp.com>; Evelyn Page <epage@torontohydro.com>; Flora Chang <Flora.chang@ladwp.com>; Gabby Mendoza <Gabriela.Mendoza@aps.com>; Gary Jensen <gary.jensen@gas-south.com>; Gayle Shimizu

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Subject: RE: 4 Day / 5 Day Bill Window

John,

- **Bill Window Method Used Today?**
  - 3 Day Bill Window.
    - Download 2-3 days in advance of Read Date
    - Read Date = Window Start Date *(99% of accounts bill on this day)*
    - Estimation and Window End = 3rd Business Day (Start to Finish)
- **Number of Bill Cycles?**
  - 20

- **Number of Customers?**
  - 185,000
- **Number of AMI Meters Currently in Use?**
  - None captured by AMI. (# of Meters spread over geo-location is not most efficient in conversations to date)
  - We are 100% AMR (vehicle Drive By) with a very aggressive meter read failure replacement program. (We estimate less than ½ of a percent of reads, i.e. 99.5 Actual Reads)
  - Note: Our upload process creates FAs during the upload process for Meters "with problems" and maintenance is done in the next 2 days.

I would say a large portion of the credit goes to the Meter and Meter Reading Programs for how efficient they are with gathering the readings.

Kevin Champion
Technology Supervisor
919-996-1938
City of Raleigh
3324 Lake Woodard Dr.
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From: Andreasik, John J:(BGE) [mailto:John.J.Andreasik@bge.com]
Sent: Monday, September 24, 2018 5:08 PM
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Subject: 4 Day / 5 Day Bill Window

Hi Everyone – BGE currently uses a 5-Day Bill Window today but is considering the possibility of moving to a 4-Day Window in conjunction with an upcoming CC&B upgrade. For some background, BGE uses 21 Bill Cycles for monthly billing for its 1.5 million customers. BGE has primarily AMI meters now in use for its gas and electric customer base.

To help us evaluate what is being done at other places today, could you share what setup you currently use today for your Bill Windows? If you could answer these following questions, it would be most appreciated:

- **Bill Window Method Used Today?**
- **Number of Bill Cycles?**
- **Number of Customers?**
- **Number of AMI Meters Currently in Use?**

Thanks in advance for your help!!

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